

Fig. 1 Client interaction with a Web server using HTTP

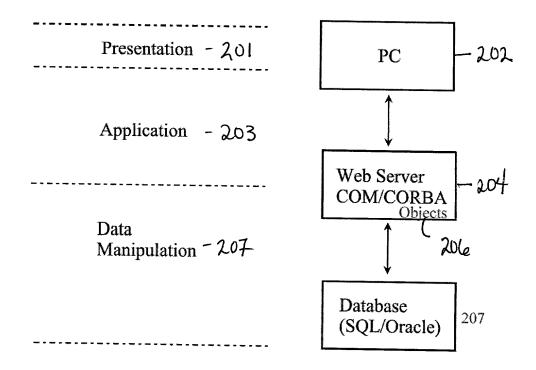


Fig. 24Three-tier client server system

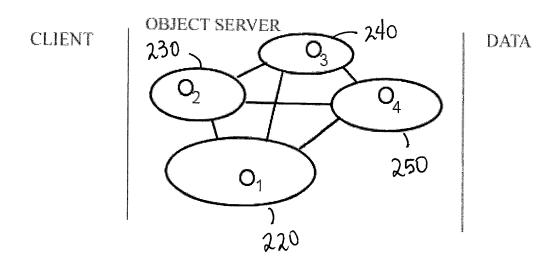


FIG. 2B

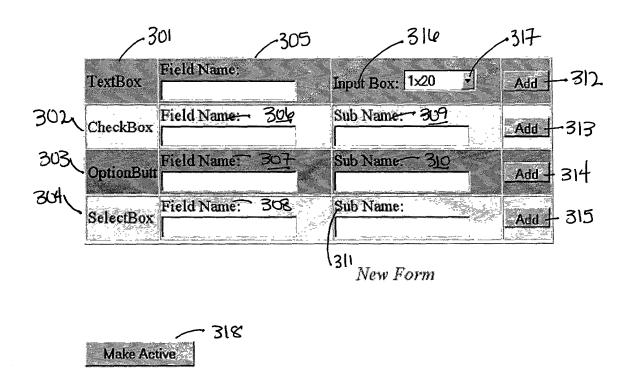


FIG. 3

## Video Film Library

Film Name	
Release Date	
Country	USA 🗸
Description	
Туре	Sci-Fi ☐ Horror ☐ Comedy ☐ Adventure ☐ Musical ☐ Romance ☐
Pict. Quality	Good O Average O Poor O
Rating	Excellent
	Clear Add

FIG. 4

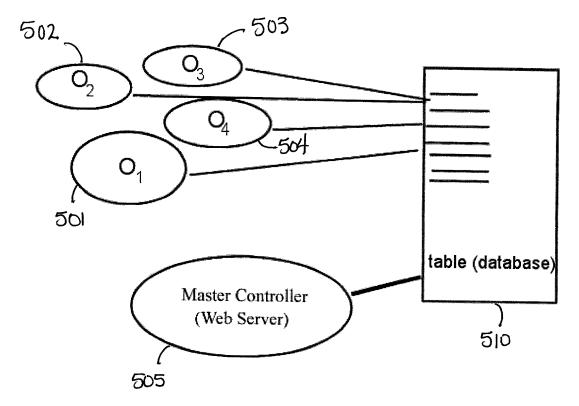


FIG. 5A

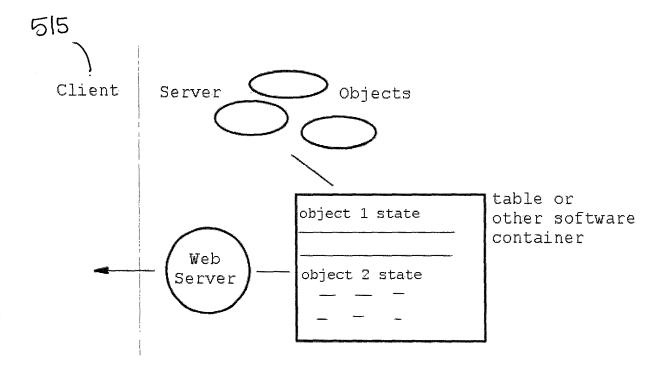


FIG. 5B

```
1. function add_field2(){
    2.
    3. //create the checkbox cookie
    4.
          form_text = document.frmHead2.text1.value
    5.
          form_size = document.frmHead2.text2.value
    6.
    7.
    8.
          new_cookie = "cookie" + tot_cookies.toString()
9.
    10.
         tot_cookies = parseInt(tot_cookies) + 1
    11.
               //set the total app. variables held in cookies
    12.
                     setCookie("total_cookies", tot_cookies)
The State and
   13.
               //create the new form variable and store as a new cookie
                     new_cookie_str = "T" + "`" + form_text + "`" + form_size
    14.
    15.
                     setCookie(new_cookie, new_cookie_str)
    16.
    17.
         window.location.reload()
    18.
    19.}
```

FIG. 6

```
1.
          for (var c=0; c<tot cookies; c++){
    2.
    3.
          conv = (c+1).toString()
    4.
          if (data_sets[c][0]=="T"){
    5.
    6.
                      //alert("this is a text box")
          //begin
    7.
    8.
                            items_coll = c.toString()
    9.
                dstr += ""
    10.
    11.
                dstr += ""
1
    12.
                dstr += data_sets[c][1]
0=4
    13.
                dstr += ""
est.
    14.
                dstr += ""
dstr += input_box(data_sets[c][2])
    15.
se b
    16.
                dstr += ""
AT WATER STREET
                dstr += "<a name=\"conv\" href='javascript:if(confirm(\"Delete,
    17.
    are you sure?\"))"
    18.
                dstr += "{del_line(" + items_coll + ")}else{}'>delete</a>"
    19.
                dstr += ""
    20.
    21.
    22.
          // draw for a radio button
    23.
          if (data_sets[c][0]=="R"){
    24.
          . . .
    25.
          . . .
    26.
    27.
          } //end of the for loop
    28.
    29.
                      document.write (dstr)
```

```
1.
           for c = 0 to (tot_cookies-1)
2.
                 cookie_str = "cookie" + Cstr(c)
3.
                 vstr = vstr + Request.Cookies(cookie_str) + "^AAA^"
4.
           next
5.
6.
           objRec.AddNew
7.
                 objRec("customer_id") = cust_id
                 objRec("customer_form") = form_id
8.
9.
                 objRec("customer_name") = cust_name
10.
                 objRec("customer_email") = cust_email
11.
                 objRec("form_schema") = vstr
12.
13.
                 objRec.Update
```

FIG. 8

```
1.
          'build the Javascript array to include all the returned data_sets
    2.
    3.
                       vstr = vstr + "<script LANGUAGE='JavaScript'>" + Chr(13)
    4.
    5.
          'define the array variables
                vstr = vstr + "var data_sets = new Array(2)" + Chr(13)
    6.
    7.
z ≈ 2
          for a = 1 to rec no
    8.
                vstr = vstr + "data_sets[" + Cstr(a) + "] = new Array(20)" + Chr(13)
    9.
en i
    10.
          next
rsi.
    11.
1254
    12.
          'populate the array with the values
13.
                for a = 1 to rec no
    14.
                      for b =1 to form_row
25: Sp
FL,
    15.
                             vstr = vstr + "data_sets[" + Cstr(a) + "][" + Cstr(b) + "] =
" + """ + Cstr(data_sets(a,b)) + """ + Chr(13)
    16.
                      next
    17.
                next
    18.
    19.
                      vstr = vstr + "</script>"
    20.
    21.
                      Response.Write vstr
```

# FIG. 9

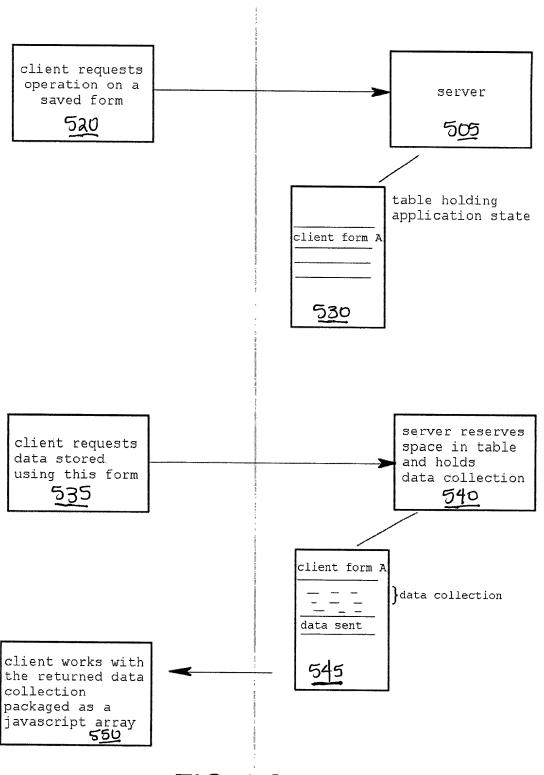


FIG. 5C

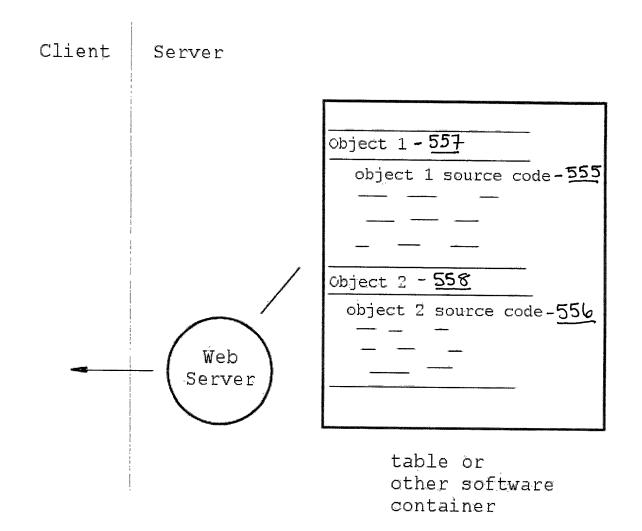


FIG. 5D

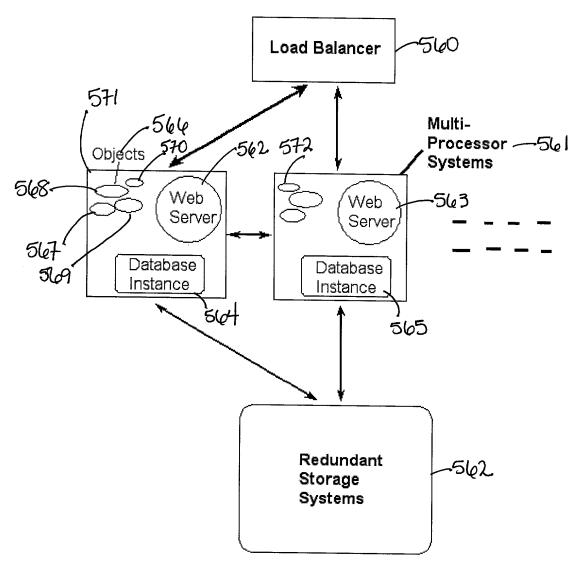


FIG. 5E

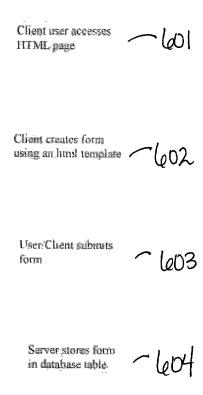


FIG. 10

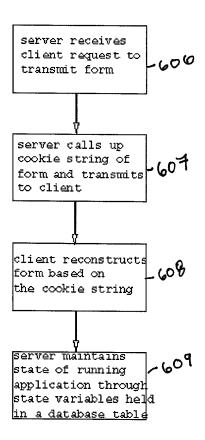


FIG. 11

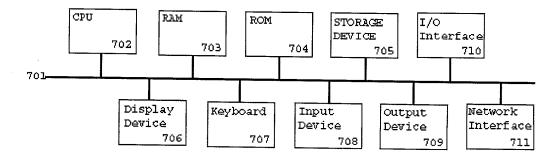


FIG. 12

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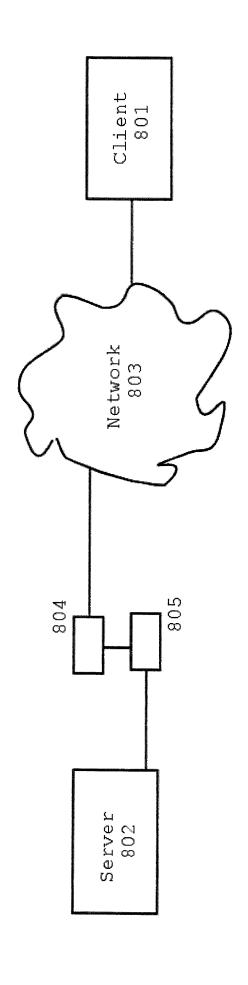


FIG. 13